



Water-Data Report 2008

**01480675 MARSH CREEK NEAR GLENMOORE, PA**

Lower Delaware Basin  
Brandywine-Christina Subbasin

LOCATION.--Lat 40°05'52", long 75°44'31" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205, on left bank 200 ft north of Pennsylvania Turnpike, 1.2 mi downstream from Lyons Run, 1.8 mi upstream from Black Horse Creek, and 3.0 mi northeast of Glenmoore.

DRAINAGE AREA.--8.57 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1966 to current year.

REVISED RECORDS.--WDR PA-74-1: 1967(M), 1971-72(P) WDR PA-93-1: 1992.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite and landline telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection.

REMARKS.--Records good except those less than 2 ft<sup>3</sup>/s, which are fair, and those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb 13	2330	151	2.36
Mar 20	1445	*166	*2.41

Minimum discharge, 0.87 ft<sup>3</sup>/s, on several days, gage height, 1.13 ft.

## 01480675 MARSH CREEK NEAR GLENMOORE, PA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.87	3.4	4.9	15	36	11	13	11	13	2.9	4.4	1.9
2	0.87	3.0	4.6	9.6	95	10	13	11	9.2	2.7	4.2	1.6
3	0.92	2.7	15	6.0	21	10	10	10	7.3	2.4	3.7	1.5
4	0.91	2.4	13	5.4	11	11	17	9.8	9.3	2.7	3.4	1.3
5	1.00	2.3	8.1	5.5	10	35	16	9.0	15	3.6	3.2	1.3
6	1.0	3.2	5.7	7.1	11	27	11	8.3	12	3.4	3.0	18
7	0.97	3.3	4.5	8.9	12	17	11	7.8	8.6	5.6	2.7	49
8	0.87	2.8	5.5	8.8	9.9	58	10	8.0	7.0	5.0	2.7	24
9	1.1	2.5	7.1	8.3	8.4	53	10	28	5.8	6.5	2.5	11
10	2.3	2.4	8.0	7.2	7.8	18	9.9	37	e5.5	5.9	4.7	8.2
11	6.8	2.4	7.9	8.0	5.1	15	10	14	e10	4.9	9.2	6.2
12	5.3	2.5	6.9	8.6	4.7	13	89	13	e9.0	3.7	9.2	5.7
13	3.5	4.7	10	7.3	88	12	29	14	6.6	2.9	5.1	8.9
14	2.4	5.3	19	8.0	114	12	13	11	8.5	10	3.4	8.5
15	2.0	8.3	13	7.8	30	12	11	9.1	21	10	3.1	5.7
16	1.8	11	45	6.6	16	12	10	20	16	6.2	2.8	3.9
17	1.5	7.6	63	6.2	12	11	9.7	32	9.6	3.6	2.9	3.1
18	1.4	4.9	15	12	30	11	9.5	20	7.4	2.9	2.1	2.6
19	2.1	11	8.9	15	33	24	9.2	25	7.2	2.5	1.8	2.2
20	6.7	16	7.9	9.2	14	125	11	20	6.5	2.4	1.6	2.1
21	5.8	13	7.2	5.7	11	51	13	26	5.6	3.2	1.6	2.1
22	3.6	8.3	7.4	4.4	11	16	11	14	e5.0	2.4	1.5	2.0
23	2.5	5.8	9.7	5.2	11	14	9.6	11	e4.2	8.9	1.5	2.0
24	2.8	4.4	29	4.9	11	12	9.0	9.6	e3.7	60	1.4	1.9
25	5.0	3.9	16	4.2	12	12	8.4	8.6	3.5	43	1.4	1.9
26	7.3	14	10	4.0	16	12	9.0	8.0	3.4	10	1.4	3.0
27	52	33	15	4.5	28	11	16	8.2	3.3	6.3	1.3	3.9
28	52	15	12	4.6	13	12	32	9.5	3.3	6.2	1.3	7.3
29	14	7.9	18	4.9	10	11	70	8.3	3.1	6.3	1.6	10
30	7.0	5.9	17	8.1	---	10	20	7.4	3.0	5.0	2.6	7.4
31	4.5	---	20	7.2	---	11	---	9.1	---	4.6	2.4	---
<b>Total</b>	200.81	212.9	434.3	228.2	691.9	669	520.3	437.7	232.6	245.7	93.7	208.2
<b>Mean</b>	6.48	7.10	14.0	7.36	23.9	21.6	17.3	14.1	7.75	7.93	3.02	6.94
<b>Max</b>	52	33	63	15	114	125	89	37	21	60	9.2	49
<b>Min</b>	0.87	2.3	4.5	4.0	4.7	10	8.4	7.4	3.0	2.4	1.3	1.3
<b>Cfsm</b>	0.76	0.83	1.63	0.86	2.78	2.52	2.02	1.65	0.90	0.92	0.35	0.81
<b>In.</b>	0.87	0.92	1.89	0.99	3.00	2.90	2.26	1.90	1.01	1.07	0.41	0.90

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	8.32	11.5	14.9	14.6	16.8	21.4	19.6	14.5	11.4	8.44	5.74	7.44
<b>Max</b>	27.5	25.6	49.9	35.9	44.8	58.4	47.4	36.7	46.0	34.0	22.1	29.2
<b>(WY)</b>	(2006)	(2004)	(1997)	(1978)	(1971)	(1994)	(1983)	(1989)	(2003)	(1984)	(1971)	(2003)
<b>Min</b>	1.71	2.45	2.07	1.19	3.75	6.58	4.84	4.97	2.30	0.83	0.58	0.88
<b>(WY)</b>	(2002)	(2002)	(1981)	(1981)	(2002)	(1981)	(1985)	(1969)	(1999)	(2002)	(2002)	(1980)

01480675 MARSH CREEK NEAR GLENMOORE, PA—Continued

SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 1966 - 2008	
<b>Annual total</b>	4,773.08	4,175.31		
<b>Annual mean</b>	13.1	11.4	12.9	
<b>Highest annual mean</b>			23.2	1984
<b>Lowest annual mean</b>			4.37	2002
<b>Highest daily mean</b>	219 Mar 2	125 Mar 20	444	Jun 22, 1972
<b>Lowest daily mean</b>	0.87 Sep 29 <sup>a,b</sup>	0.87 Oct 1 <sup>b</sup>	0.21	Aug 20, 2002
<b>Annual seven-day minimum</b>	0.88 Sep 26	0.93 Oct 1	0.24	Aug 16, 2002
<b>Maximum peak flow</b>		166 Mar 20	<sup>c</sup> 946	Jun 22, 1972
<b>Maximum peak stage</b>		2.41 Mar 20	4.68	Jun 22, 1972
<b>Instantaneous low flow</b>		0.87 Oct 1 <sup>d</sup>	0.21	Aug 6, 1999 <sup>e</sup>
<b>Annual runoff (cfsm)</b>	1.53	1.33	1.50	
<b>Annual runoff (inches)</b>	20.72	18.12	20.41	
<b>10 percent exceeds</b>	21	20	25	
<b>50 percent exceeds</b>	7.9	8.1	7.9	
<b>90 percent exceeds</b>	1.6	2.1	2.1	

<sup>a</sup> Also Sep 30, Oct 1.

<sup>b</sup> Also Oct 2, 8.

<sup>c</sup> From rating curve extended above 903 ft<sup>3</sup>/s based on straight-line extension.

<sup>d</sup> Also Oct 2-4, 8, 9.

<sup>e</sup> Also Aug 19-22, 2002.

